



**WHY DIGITAL MIGRATION IS ESSENTIAL TO YOUR BUSINESS**

# WHY MOTOTRBO TWO-WAY RADIO?

Licensed, professional two-way radios have revolutionized communications for decades and continue to empower millions of people today. From airports to construction sites, conference centres to manufacturing plants, they are synonymous with reliability, durability and convenience.

Now professional radio is making a huge leap forward — the move from analogue to digital. Regulatory pressures and real-world needs are driving greater spectrum efficiency. Some legislators are even mandating that no new designs of two-way radios can be certified unless they have digital capability. This means that practically everyone in the future will use digital.

Digital radio offers many advantages over analogue, including improved voice quality with greater coverage, better privacy, more capacity, access to data applications and more. That's why it's critical to consider digital migration now – so when you're ready to upgrade, you'll choose a system with the greatest benefits for the long term.

The MOTOTRBO two-way radio range from Motorola Solutions supports both analogue and digital operation. So MOTOTRBO radios are easy to add to your existing analogue radio fleet today and are equipped to bring the benefits of digital today and into the future.

## **🔊 BETTER VOICE QUALITY**

### **HEAR AND BE HEARD CLEARLY WITHOUT NOISE, STATIC OR DISTORTION**

When you use a normal analogue radio, every sound that's picked up by the microphone is transmitted. If there's a lot of background noise, it can be very difficult to understand you. Digital technology is purer. The software focuses purely on your voice, paying no attention to the machine clatter or the crowd noise around you. The result is exceptional voice clarity.

Radio interference creates static on an analogue radio and makes the conversation less intelligible. Voice gets garbled and the message must be repeated. Because a digital radio has automatic error correction, it rebuilds voice sounds and maintains the clarity of the voice, even if a signal is badly corrupted. And since speech is digitally-encoded, you benefit from smarter capabilities, such as advanced software algorithms that can deliver clear voice in the most extreme conditions.





## BETTER CAPACITY

### GET DOUBLE THE CALLS FROM EVERY CHANNEL

When it comes to spectrum efficiency, nothing matches digital technology. Digital is so bandwidth-efficient, it can accommodate two completely separate “channels” in one 12.5 kHz frequency channel. As well as making more efficient use of precious radio spectrum, this also minimizes your licensing costs, especially as your business grows.

With digital, you can immediately double the capacity of your existing 12.5 kHz channel and enable many more people to communicate without worrying about privacy or interference. And you use your channels flexibly; for example, one frequency channel can carry two conversations or can be used for data along with voice.

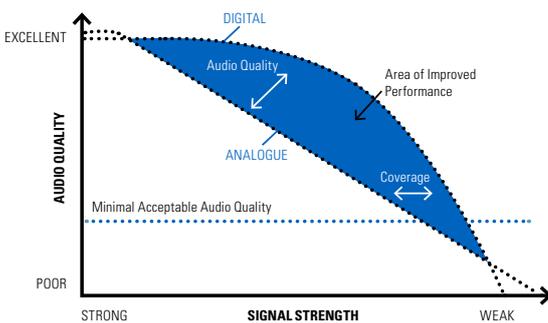


## BETTER COVERAGE

### YOUR VOICE STAYS STRONG AND CLEAR TO THE ENDS OF COVERAGE

While all radio signals grow fainter as they go further out, the voice quality on analogue radios degrades much more quickly. At the far edge of coverage, even though signal strength is similar, digital voice will be clear and intelligible while analogue voice will be garbled and masked by static.

Digital radios have built-in error correction to eliminate static and make sure voice calls are heard clearly over a greater range. There's no interference, background noise or distortion. Digital maintains voice integrity to the very ends of the coverage area.



To find out why MOTOTRBO two-way radios are essential to your business, visit [www.motorolasolutions.com/mototrbo](http://www.motorolasolutions.com/mototrbo) or find your closest Motorola representative or authorised Partner at [www.motorolasolutions.com/contactus](http://www.motorolasolutions.com/contactus)

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EMEA version 1 (10/2014)



## BETTER BATTERY LIFE

### COMMUNICATE LONGER ON A SINGLE CHARGE

Battery life is a big challenge for all mobile devices. But because digital technology is much more energy-efficient than analogue, it reduces battery drain and improves talk time. Count on your battery to last up to 40% longer when you use a digital radio.

While both analogue and digital radios consume about the same power in standby mode, once you start transmitting, digital radios are dramatically more efficient. This is critical for frequent and heavy users who depend on their radios to last the entire shift and can't stop to replace batteries or recharge radios.



## BETTER CAPABILITIES

### UNLOCK THE POTENTIAL WHEN THE TIME IS RIGHT

Digital builds on the strengths of analogue – but offers so much more. It can deliver data and text messaging and interfaces seamlessly with business-critical applications. It ensures better privacy without the significant loss in voice quality that analogue scrambling can cause. And it provides a flexible, forward-facing architecture that can grow and adapt with you.

MOTOTRBO can operate in analogue mode to interoperate with existing analogue radios, but also supports digital to deliver enhanced performance and advanced capabilities.

When you choose Motorola, you choose generations of industry-leading quality, reliability and performance behind every radio. We have created two-way radios since the 1930s and continually innovate as the recognized leader in digital two-way radio technology. Our flexible portfolio of radios delivers the best of both worlds: great voice communications today and a path to even better digital voice communications when you're ready.

## ARE YOU READY?



### ENHANCED DIGITAL AUDIO PERFORMANCE

Digital voice retains better quality than analogue as signal strength decreases.

STAY CONNECTED WITH MOTOROLA

**MOTOTRBO™**  
DIGITAL REMASTERED.

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